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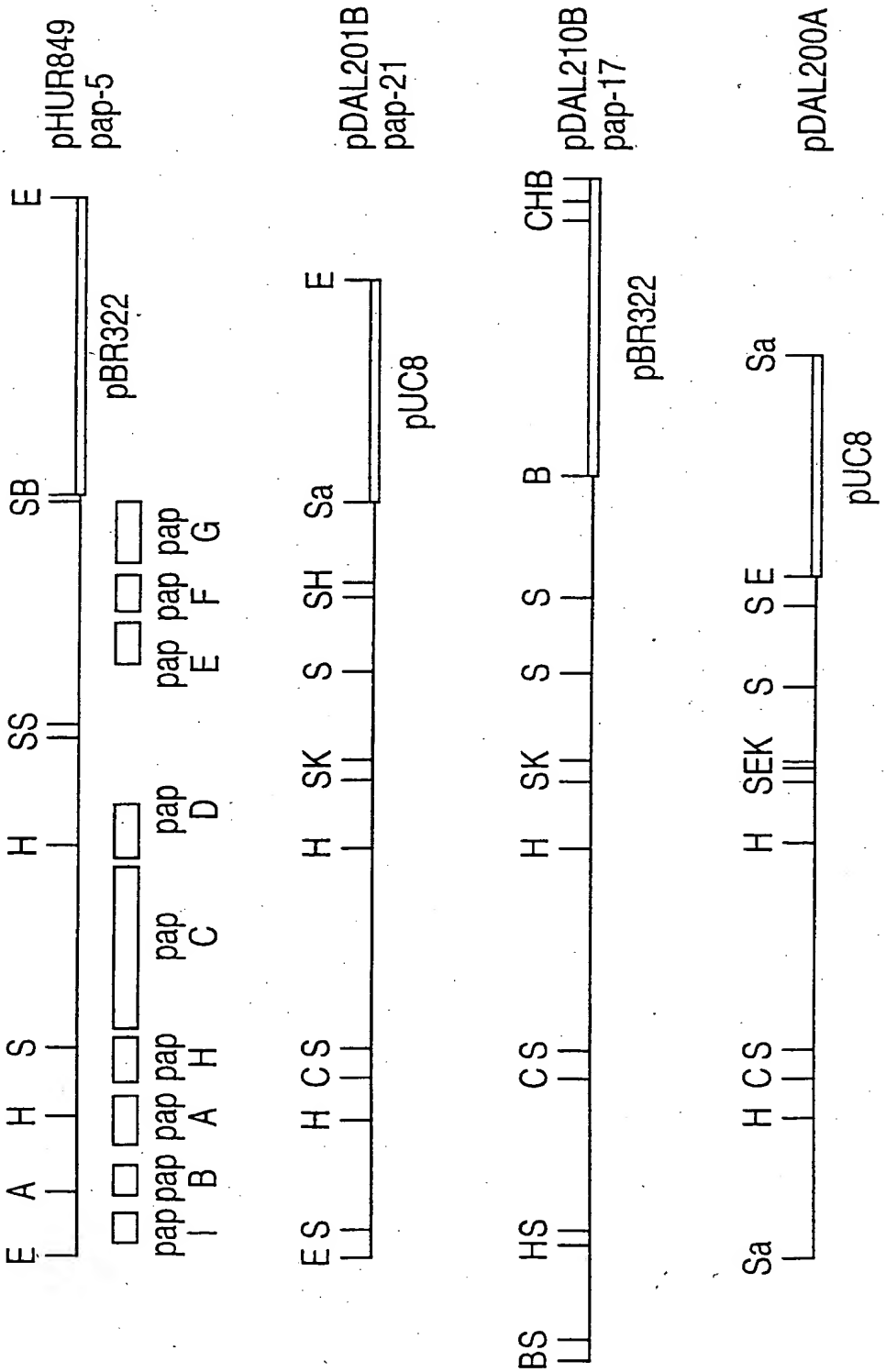

FIG. 1

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FIG. 2A

```
1    ATGAGACTGCGATTCTCTGTTCCACTTTTCTTTTTTGGCTGTGTGTTTGTTCATGGTGTT   60
     M  R  L  R  F  S  V  P  L  F  F  F  G  C  V  F  V  H  G  V
    -22
61   TTTGCCGGTCCGTTTCCTCCGCCCGGCATGTCCCTTCCTGAATACTGGGGAGAAGAGCAC  120
     F  A  G  P  F  P  P  P  G  M  S  L  P  E  Y  W  G  E  E  H
       -1 +1
121  GTATGGTGGGACGGCAGGGCTGCTTTTCATGGTGAGGTTGTCAGACCTGCCTGTACTCTG  180
     V  W  W  D  G  R  A  A  F  H  G  E  V  V  R  P  A  C  T  L
181  GCGATGGAAGACGCCTGGCAGATTATTGATATGGGGGAAACCCCGGTACGGGATTTACAG  240
     A  M  E  D  A  W  Q  I  I  D  M  G  E  T  P  V  R  D  L  Q
241  ATTGGTTTCTCCGGACCTGAAAGAAAATTCAGCCTCCGGCTCAGGAATTGTGAATTTAAC  300
     N  G  F  S  G  P  E  R  K  F  S  L  R  L  R  N  C  E  F  N
301  AGTCAGGGTGGGAACCTTTTCTCTGATTCCCGGATAAGGGTGACTTTCGATGGCGTCCGG  360
     S  Q  G  G  N  L  F  S  D  S  R  I  R  V  T  F  D  G  V  R
361  GGTGAAACGCCGGATAAGTTTAATTTATCCGGTCAGGCAAAAGGCATTAATCTGCAGATA  420
     G  E  T  P  D  K  F  N  L  S  G  Q  A  K  G  I  N  L  Q  I
421  GCTGATGTCAGGGGAAATATTGCCCGGGCAGGAAAAGTAATGCCTGCAATACCATTGACG  480
     A  D  V  R  G  N  I  A  R  A  G  K  V  M  P  A  I  P  L  T
481  GGTAATGAAGAAGCGCTGGATTACACCCTCAGAATTGTGAGAAACGGAAAAAAACTTGAA  540
     G  N  E  E  A  L  D  Y  T  L  R  I  V  R  N  G  K  K  L  E
541  GCCGGAAATTATTTTGCTGTGCTGGGATTCCGGGTCGATTATGAGTGA   588
     A  G  N  Y  F  A  V  L  G  F  R  V  D  Y  E  *
```

Docket No. 5660-1

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FIG. 2B

```
1   ATGAGACTGCGATTCTCTGTTCCACTTTTCTTTTTTTGCTGTGTGTTTGTTCATTGTGTT   60
    M  R  L  R  F  S  V  P  L  F  F  F  C  C  V  F  V  H  C  V
   -22
61  TTTGCCGGTCCGTTTCCTCCGCCCGGCATGTCCCTTCCTGAATACTGGGGAGAAGAACAC  120
    F  A  G  P  F  P  P  P  G  M  S  L  P  E  Y  W  G  E  E  H
      -1 +1
121 GTATGGTGGGACGGCAGGGCTGCTTTTCATGGTGAGGTTGTCAGACCTGCCTGTACTCTG  180
    V  W  W  D  G  R  A  A  F  H  G  E  V  V  R  P  A  C  T  L
181 GCGATGGAAGACGCCTGGCAGATTATCGATATGGGGGAAACCCCGGTTCGGGATTTACAG  240
    A  M  E  D  A  W  Q  I  I  D  M  G  E  T  P  V  R  D  L  Q
241 ATTGGTTTCTCCGGACCTGAAAGAAAATTCAGCCTCCGGCTCAGGAACTGTGAATTTAAC  300
    N  G  F  S  G  P  E  R  K  F  S  L  R  L  R  N  C  E  F  N
301 AGTCAGGGTGGGAACCTTTTCTCTGATTCCCGGATAAGGGTGACTTTCGATGGCGTCCGG  360
    S  Q  G  G  N  L  F  S  D  S  R  I  R  V  T  F  D  G  V  R
361 GGTGAAACGCCGGATAAGTTTAATTTATCCGGTCAGGCAAAAGGAATTAATCTGCAGATA  420
    G  E  T  P  D  K  F  N  L  S  G  Q  A  K  G  I  N  L  Q  I
421 GCTGATGCCAGGGGAAATATTGCCCGGGCAGGGAAAGTAATGCCTGCAATACCATTGACG  480
    A  D  A  R  G  N  I  A  R  A  G  K  V  M  P  A  I  P  L  T
481 GGTAATGAAGAAGCGCTGGATTACACCCTCAGAATTGTGCGAAACGGAAAAAAACTTGAA  540
    G  N  E  E  A  L  D  Y  T  L  R  I  V  R  N  G  K  K  L  E
541 GCCGGAAATTATTTTGCCGTGCTGGGATTCCGGGTCGATTATGAGTGA  588
    A  G  N  Y  F  A  V  L  G  F  R  V  D  Y  E  *
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Attorney Docket No. 5660-000

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FIG. 2C

```
1   ATGAGACTGCGATTCTCTGTTCCACTTTTCTTTTTTTGCTGTGTGTTTGTTCATGGTGTT   60
    M  R  L  R  F  S  V  P  L  F  F  F  C  C  V  F  V  H  G  V
   -22
61  TTTGCCGGTCCGTTTCCTCCTCCCGGCATGTCCCTTCCTGAATACTGGGGAGAAGAGCAC  120
    F  A  G  P  F  P  P  P  G  M  S  L  P  E  Y  W  G  E  E  H
      -1 +1
121 GTATGGTGGGACGGCAGGGCTGCTTTTCATGGTGAGGTTGTCAGACCTGCCTGTACTCTG  180
    V  W  W  D  G  R  A  A  F  H  G  E  V  V  R  P  A  C  T  L
181 GCGATGGAAGACGCCTGGCAGATTATCGATATGGGGGAAACCCCGGTTCGGGATTTACAG  240
    A  M  E  D  A  W  Q  I  I  D  M  G  E  T  P  V  R  D  L  Q
241 ATTGGTTTTTCCGGACCTGAAAGAAAATTCAGCCTCCGGCTCAGGAACTGTGAATTTAAC  300
    N  G  F  S  G  P  E  R  K  F  S  L  R  L  R  N  C  E  F  N
301 AGTCAGGGTGGGAACCTTTTCTCTGATTCCCGGATAAGGGTGACTTTCGATGGCGTCCGG  360
    S  Q  G  G  N  L  F  S  D  S  R  I  R  V  T  F  D  G  V  R
361 GGTGAAACGCCGGATAAGTTTAATTTATCCGGTCAGGCAAAAGGCATTAATCTGCAGATA  420
    G  E  T  P  D  K  F  N  L  S  G  Q  A  K  G  I  N  L  Q  I
421 GCTGATGCCAGGGGAAATATTGCCCGGGCAGGGAAAGTAATGCCTGCAATACCATTGACG  480
    A  D  A  R  G  N  I  A  R  A  G  K  V  M  P  A  I  P  L  T
481 GGTAATGAAGAAGCGCTGGATTACACCCTCAGAATTGTGAGAAACGGAAAAAAACTTGAA  540
    G  N  E  E  A  L  D  Y  T  L  R  I  V  R  N  G  K  K  L  E
541 GCCGGAAATTATTTTGCCGTGCTGGGATTCCGGGTCGATTATGAGTGA   588
    A  G  N  Y  F  A  V  L  G  F  R  V  D  Y  E  *
```

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FIG. 2D

```
   1  ATGAGACTGCGATTCTCTGTTCCACTTTTCTTTTTTTGCTGTGTGTTTGTTCATGGTGTT   60
      M  R  L  R  F  S  V  P  L  F  F  F  C  C  V  F  V  H  G  V
     -22
  61  TTTGCCGGTCCGTTTCCTCCGCCCGGCATGTCCCTTCCTGAATACTGGGGAGAAGAACAC  120
      F  A  G  P  F  P  P  P  G  M  S  L  P  E  Y  W  G  E  E  H
        -1 +1
 121  GTATGGTGGGACGGCAGGGCTGCTTTTCATGGTGAGGTTGTCAGACCTGCCTGTACTCTG  180
      V  W  W  D  G  R  A  A  F  H  G  E  V  V  R  P  A  C  T  L
 181  GCGATGGAAGACGCCTGGCAGATTATCGATATGGGGGAAACCCCGGTTCGGGATTTACAG  240
      A  M  E  D  A  W  Q  I  I  D  M  G  E  T  P  V  R  D  L  Q
 241  ATTGGTTTTTCCGGACCTGAAAGAAAATTCAGCCTCCGGCTCAGGAACTGTGAATTTAAC  300
      N  G  F  S  G  P  E  R  K  F  S  L  R  L  R  N  C  E  F  N
 301  AGTCAGGGTGGGAACCTTTTCTCTGATTCCCGGATAAGGGTGACTTTCGATGGTGTCCGG  360
      S  Q  G  G  N  L  F  S  D  S  R  I  R  V  T  F  D  G  V  R
 361  GGTGAAACGCCGGATAAGTTTAATTTATCCGGTCAGGCAAAAGGCATTAATCTGCAGATA  420
      G  E  T  P  D  K  F  N  L  S  G  Q  A  K  G  I  N  L  Q  I
 421  GCTGATGCCAGGGGAAATATTGCCCGGGCAGGGAAAGTAATGCCTGCAATACCATTGACG  480
      A  D  A  R  G  N  I  A  R  A  G  K  V  M  P  A  I  P  L  T
 481  GGTAATGAAGAAGCGCTGGATTACACCCTCAGAATTGTGCGAAACGGAAAAAAACTTGAA  540
      G  N  E  E  A  L  D  Y  T  L  R  I  V  R  N  G  K  K  L  E
 541  GCCGGAAATTATTTTGCCGTGCTGGGATTCCGGGTCGATTATGAGTGA  588
      A  G  N  Y  F  A  V  L  G  F  R  V  D  Y  E  *
```

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FIG. 3


```
                1                                                          60
pHUR849         ATGAGACTGCGATTCTCTGTTCCACTTTTCTTTTTTGGCTGTGTGTTTGTTCATGGTGTT
pDAL200A                                        t
pDAL201B                                        t
pDAL210B                                        t
               61      67                                                 120
pHUR849         TTTGCCGGTCCGTTTCCTCCGCCCGGCATGTCCCTTCCTGAATACTGGGGAGAAGAGCAC
pDAL200A                    t                                       a
pDAL201B                    t                                       a
pDAL210B                                                            a
              121                                                          180
pHUR849         GTATGGTGGGACGGCAGGGCTGCTTTTCATGGTGAGGTTGTCAGACCTGCCTGTACTCTG
pDAL200A
pDAL201B
pDAL210B
              181                                                          240
pHUR849         GCGATGGAAGACGCCTGGCAGATTATTGATATGGGGGAAACCCCGGTACGGGATTTACAG
pDAL200A                          c                   t
pDAL201B                          c                   t
pDAL210B                          c                   t
              241                                                          300
pHUR849         ATTGGTTTCTCCGGACCTGAAAGAAAATTCAGCCTCCGGCTCAGGAATTGTGAATTTAAC
pDAL200A                                            c
pDAL201B              t                             c
pDAL210B              t                             c
              301                                                          360
pHUR849         AGTCAGGGTGGGAACCTTTTCTCTGATTCCCGGATAAGGGTGACTTTCGATGGCGTCCGG
pDAL200A
pDAL201B
pDAL210B
              361                                                          420
pHUR849         GGTGAAACGCCGGATAAGTTTAATTTATCCGGTCAGGCAAAAGGCATTAATCTGCAGATA
pDAL200A                                            a
pDAL201B
pDAL210B
              421                                                          480
pHUR849         GCTGATGTCAGGGGAAATATTGCCCGGGCAGGAAAAGTAATGCCTGCAATACCATTGACG
pDAL200A              c                   g
pDAL201B              c                   g
pDAL210B              c                   g
              481                                                          540
pHUR849         GGTAATGAAGAAGCGCTGGATTACACCCTCAGAATTGTGAGAAACGGAAAAAAACTTGAA
pDAL200A                                        c
pDAL201B                                        c
pDAL210B                                        c
              541                                                  588
pHUR849         GCCGGAAATTATTTTGCTGTGCTGGGATTCCGGGTCGATTATGAGTGA
pDAL200A              c
pDAL201B              c
pDAL210B              c
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Docket No. 5050-1-5 CON

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O.G. FIG.
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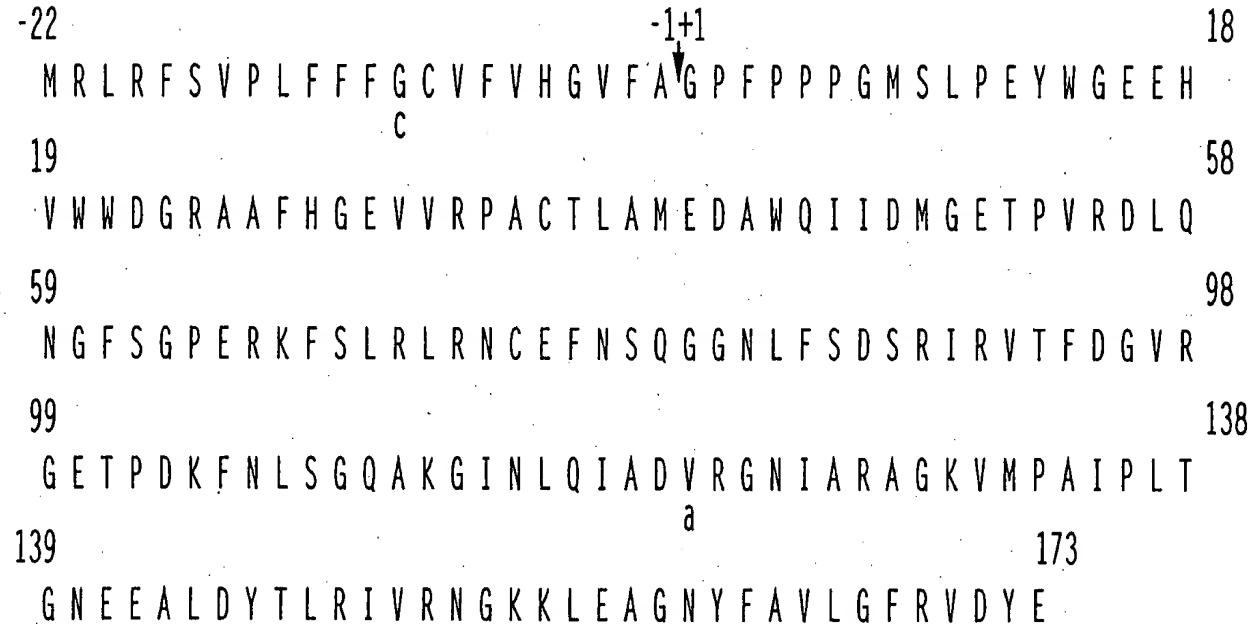
FIG. 4



Title: IMMUNOGENIC PILI PRESENTING FOREIGN PEPTIDES, THEIR PRODUCTION AND USE
Inventor(s): Peter O'Hanley et al.
Appl. No.: 09/833,079

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FIG. 5A

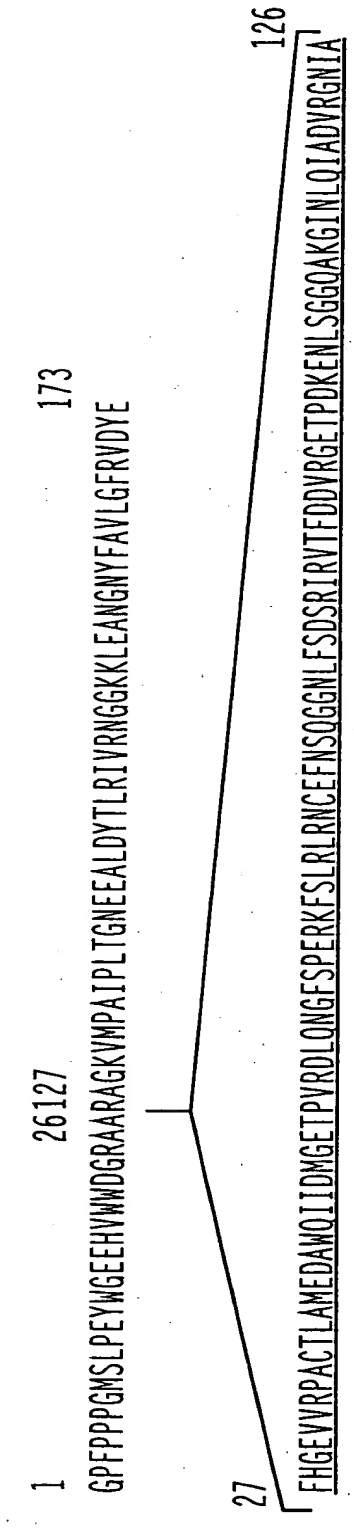
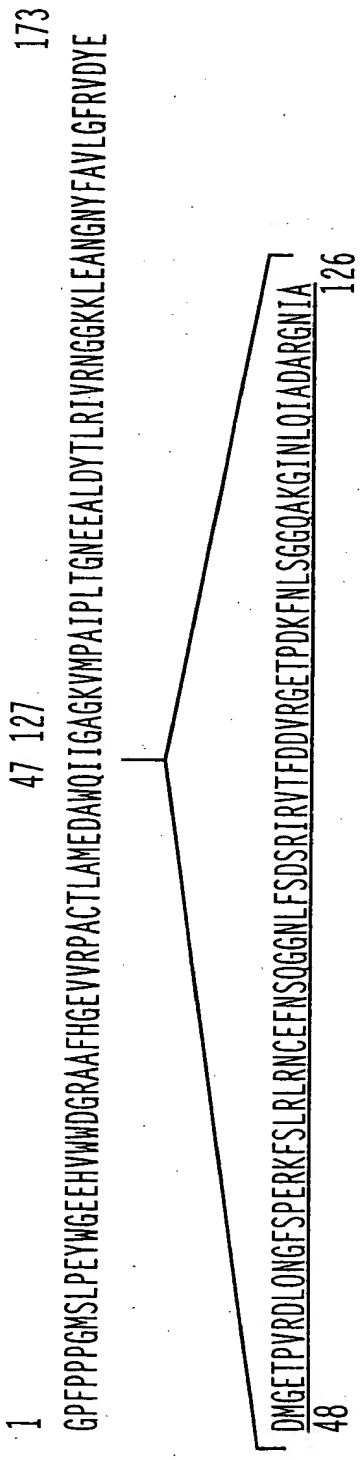
FIG. 5B